### **BEFORE THE OIL CONSERVATION COMMISSION EXAMINER HEARING SEPTEMBER 23, 2024**

## CASE NOS. 23614-23617, 23775, 24018-24020, 24025, 24123

DOC GOODEN SWD #1 WELL, HERNANDEZ SWD #1 WELL, HODGES SWD #1 WELL, SEAVERS SWD #1 WELL, ANDRE DAWSON SWD #1 WELL, (EMPIRE) REVOKE INJECTION AUTHORITY, PIAZZA DE NOVO

### LEA COUNTY, NEW MEXICO



#	Case No.	Applicant	Case Caption
1	23614	Goodnight Midstream	Application of Goodnight Permian Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico, NM OCD (" <b>Doc</b> <b>Gooden SWD</b> Application")
2	23615	Goodnight Midstream	Application of Goodnight Permian Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico, NM OCD (" <b>Hernandez SWD</b> Application")
3	23616	Goodnight Midstream	Application of Goodnight Permian Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico, NM OCD (" <b>Hodges</b> <b>SWD</b> Application")
4	23617	Goodnight Midstream	Application of Goodnight Permian Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico, NM OCD (" <b>Seaver</b> <b>SWD</b> Application")
5	23755	Goodnight Midstream	Application of Goodnight Permian Midstream, LLC for to Amend Order No. R-22026/SWD- 2403 to Increase the Approved Injection Rate in its Andre Dawson SWD #1, Lea County, New Mexico, NM OCD ("Andre Dawson SWD Rate Increase Application")
6	24123	Goodnight Midstream	Application of Goodnight Permian Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico, NM OCD Case No. 22626, denied by NM OCD Order No. R- 22869-A, appeal docketed, NM OCC (" <b>Piazza</b> <b>SWD De Novo</b> Application")
7	24018	Empire	Application of Empire New Mexico LLC to Revoke the Injection Authority Granted under Order No. R-22026 for the Andre Dawson SWD #001 Operated by Goodnight Midstream Permian LLC, Lea County, New Mexico, NM OCD ("Andre Dawson SWD Application")
8	24019	Empire	Application of Empire New Mexico LLC to Revoke the Injection Authority Granted under Order No. R-22027 for the Ernie Banks SWD No. 1 Well Operated by Goodnight Midstream Permian LLC, Lea County, New Mexico, NM OCD ("Ernie Banks SWD Application")

#### TABLE OF CASES

9	24020	Empire	Application of Empire New Mexico LLC to
		1	Revoke the Injection Authority Granted by
			Administrative Order SWD-2307 for the Ryno
			SWD #001 f/k/a Snyder SWD Well No. 1
			Operated by Goodnight Midstream Permian
			LLC, Lea County, New Mexico, NM OCD
			("Ryno SWD Application")
10	24025	Empire	Application of Empire New Mexico LLC to
			Revoke the Injection Authority Granted under
			Order No. R-21190 for the Sosa SA 17 SWD
			Well No. 2 Operated by Goodnight Midstream
			Permian LLC, Lea County, New Mexico, NM
			OCD Case No. 24025 ("Sosa SA SWD
			Application")

#### STATE OF NEW MEXICO

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION COMMISSION

#### **BEFORE THE OIL CONSERVATION COMMISSION**

#### Santa Fe, New Mexico

#### Submitted by: Goodnight Midstream Permian, LLC

#### Hearing Date: September 23, 2024

#### Case Nos. 23614-23617, 23775, 24018 – 24020, 24025, 24123

#### MASTER INDEX

Main Exhibit	Subexhibit/ Appendix	Material/Contents	
	-		
Α		Self-Affirmed Statement of Nathan Alleman	
	A-1	Nate Alleman Resumé	
	A-2	Order Referring Cases to OCC	
	A-3	Order of the Division	
	A-4	Doc Gooden Application for Authorization to Inject	
	A-5	Hernandez Application for Authorization to Inject	
	A-6	Hodges Application for Authorization to Inject	
	A-7	Seaver Application for Authorization to Inject	
	A-8	Piazza SWD #1 – C-108	
	A-9	Andre Dawson SWD #1 – Rate Increase	
В		Self-Affirmed Statement of Preston McGuire	
	B-1	McGuire Resumé	

Main Exhibit	Subexhibit/ Appendix	Material/Contents
B-2		Llano Overview Map
B-3		Llano Overview w/SRAs
B-4		Case 22626-Piazza Transcript Sweeney
B-5		Scaling Tendencies at EMSU
	B-6	Eunice Monument South Unit Topo Map
	B-6.1	Proposed Eunice Monument South Unit
	B-7	Technical Committee Meeting Minutes
	B-8	San Andres SWDs WSWs Map Around EMSU
	B-9	EMSU GNM Wrigley Wells Xsec
	B-10.1	Gooden Geology Cross-section
	B-10.2	Hernandez Geology Cross-section
	B-10.3	Hodges Geology Cross-section
	B-10.4	Seaver Geology Cross-section
	B-10.5	Piazza Geology Cross-section
	B-11	Dawson Injection Data
	B-12	Sosa Injection Data
	B-13	Wrigley Average Daily Injection Post 2023
	B-14	Empire WF Injection Well Permitted Violations
	B-15	Unit Doc Geologic Descriptions
	B-16	SPE Excerpt SADR Top
	B-17	EMSU WSW SADR Tops
	B-18	EMSU WSWs Volumes
	B-19	San Andres Water Supply Wells
	B-20	Dawson Drilling Report Fluid Loss
	B-21	Fluid Levels and BHPs
	B-22	EMSU EOR Shut in Pressures September 2023
	B-23	Banks – EMSU 368 Shut in PSI
	B-24	EMSU EOR Injection Pressure Increase
	B-25	Lindsay PhD SADR Reservoir Seal Statement
	B-26	Fracture Study of EMSU Well No. 679
	B-27	San Andres Perm. Barrier Core Data
	B-28	EMSU 239 Rebuttal Cross-section
	B-29	CBP to Delaware Stratigraphy

Main Exhibit	Subexhibit/ Appendix	Material/Contents
B-30		2012 RPSEA Goat Seep Isolation
	B-31	Hydrology Statements
	B-32	EMSU 679 Core Data Base of ROZ
	B-33	EMSU 746 NuTech Log vs. Tests
	B-34	EMSU 658 Nutech Log vs. Tests
	B-35	EMSU 660 NuTech Log vs. Tests
	B-36	EMSU All SWDs – ROZ Depths
	B-37	Reservoir Pressure Over Time
С		Self-Affirmed Statement of Tom Tomastik
	C-1	Tom Tomastik ALL Consulting Resume
	C-2	Bureau of Mines 1939 Eunice Oilfield Water Encroachment Map
	C-3	EMSU Wells by Age
	C-4	Rice Engineering San Andres SWD EME Well L-21
	C-5	Chevron Convert to SWD Cover Letter
	C-6	Example of Fluid Flow from Carbonate Rocks – Limestones and Dolomites
	C-7	Groundwater Flow Affected by Horizontal Bedding Plane Barrier
	C-8	Total Project Capital Costs for the South Hobbs Grayburg-San Andres Project in 2013
	C-9	Total Project Capital Costs for the North Hobbs Project in 2014
	C-10	R-6199-F North Hobbs
	C-11	R-4934-F South Hobbs
D		Self-Affirmed Statement of James A. Davidson
	Figs. 1-18	Testimony Figures
	Appx. A	Water Saturation Models
	Appx. A Figs. A1-A10	Appendix A Figures
	Appx. B	Well Logs
	Appx. B Logs	
		EMSU 628
		EMSU 658
		EMSU 660

Main Exhibit	Subexhibit/ Appendix	Material/Contents
		EMSU 673
		EMSU 679
		EMSU 713
		EMSU 746
		Ryno (previously Snyder)
	Appx. C	Individual Well Comments
	D-1	James A. Davidson Curriculum Vitae
Ε		Self-Affirmed Statement of Bill Knights
	Figs. 1-15	Testimony Figures
	Appx. A	Curriculum Vitae
	Appx. B	Materials Relied Upon
	Appx. C	Bibliography
	Appx. D	Abbreviations
F		Self-Affirmed Statement of John C. McBeath, P.E.
	F-1	Resumé of John C. McBeath, P.E.
	F-2	Map of GM Wells
	F-3	Radial Cement Bond Log Run on the Ernie Banks 1 Well
	F-4	Radial Cement Bond Log for the Ryno SWD #1
	F-5	Radial Cement Bond Log Run on the Sosa 17 2 Well
	F-6	Radial Cement Bond log run on the Dawson 1 Well
	F-7	Well Completion or Recompletion Report and Log
	F-8	Application for Permit to Drill, Re-enter, Deepen, Plugback or Add a Zone
	F-9	NMOCD Well Files for #457
	F-10	NMOCD Well Files for #458
	F-11	NMOCD Well Files for #459
	F-12	NMOCD Well Files for #460
	F-13	NMOCD Well Files for #461
	F-14	NMOCD Well Files for #462
	F-15	Cement Bond Log for the EMSU 457
	F-16	Log Summaries and Calculations

Main Exhibit	Subexhibit/ Appendix	Material/Contents
	F-17	Summary of XTO's Reports in the EMSU 660 well
	F-18	XTO's Completion Activities for the EMSU 746
	F-19	XTO's Completion Activities for the EMSU 758
	F-20	Recovery Efficiency Response to Pressure
G		Self-Affirmed Statement of Dr. Larry Lake
	G-1	Curriculum Vitae
	G-2	EMSU Base Map
	G-3	Subsurface Depth Intervals Charts
	G-4	ROZ Chart for Grayburg and San Andres Aquifer
	G-5	EMSU WSW Production Tests
Н		Notice

32701538\_v3